

APPENDIX A:
IDAHO TIER I OPERATING PERMIT APPLICATION FORMS



Department of Environmental Quality
1410 N. Hillon
Boise, ID 83706
For assistance, call the Air Permit Hotline: 1-877-5PERMIT

Form #AQ-F-P004
Revision: 1
12/15/06

AIR QUALITY TIER I OPERATING PERMIT APPLICATION

SECTION 1: GENERAL INFORMATION

Company & Division Name:	University of Idaho		
Company Mailing Address:	1108 W. Sixth St.		
	City: Moscow	State: ID	Zip: 83844-2030
Company Environmental Contact Name:	Fred Hutchison		
	Title: Director EHS	Phone:	208-885-6524
Company Owner or Responsible Official Name:	Lloyd Mues		
	Title: V.P. of Finance and Administration	Phone:	(208)885-6524
Exact Plant Location:	West Side of the City of Moscow		
General Nature of Business:	Institution of Higher Undergraduate and Postgraduate Education and Research		
No. Full-time Employees:	2500	Property Area (acres):	1,585
Reason for Application:	<input type="checkbox"/> Initial Tier I permit to operate <input checked="" type="checkbox"/> Renewal Tier I permit to operate <input checked="" type="checkbox"/> Modification/Amendment of existing Tier I permit to operate <input type="checkbox"/> Change of ownership or location		
Distance to Nearest State Border (miles):	0.50		
Primary SIC:	8221	Secondary SIC:	N/A
Plant Location County:	Latah	Elevation (ft):	2,600
UTM Zone:	11		
UTM (X) Coordinate (km):	499.0	UTM (Y) Coordinate (km):	5175.0

LIST ALL FACILITIES WITHIN THE STATE THAT ARE UNDER YOUR CONTROL OR UNDER COMMON CONTROL AND HAVE EMISSIONS TO THE AIR. IF NOT, SO STATE.

Name of Facility	Location of Other Facility
N/A	N/A

Certification of Truth, Accuracy, and Completeness (by Responsible Official)

I hereby certify that based on information and belief formed after reasonable inquiry, the statements and information contained in this and any attached and/or referenced document(s) are true, accurate, and complete in accordance with IDAPA 58.01.01.123-124.


Responsible Official Signature

V.P. Finance and Administration
Responsible Official Title

10 May 07
Date

Lloyd Mues
Print or Type Responsible Official Name

SECTION 2: FUEL-BURNING EQUIPMENT

<u>DEQ USE ONLY</u>			
DEQ Plant ID Code		DEQ Stack ID Code	
DEQ Building Code		Primary SCC	
DEQ Segment Code		Secondary SCC	
DEQ Process Code			

SECTION 2, PART A.

GENERAL INFORMATION

Process Code or Description	S-BC - Natural Gas-Fired Boiler		
Stack Description	131 foot Vertical Uncovered Stack (shares stack with S-BA, stack referred to as S-BA/S-BC)		
Building Description	Steam Plant		
Manufacturer	Babcock & Wilcox	Model	FM978
		Date Installed	1963
		Date Last Modified	N/A

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

Million BTU/hr	78.6	1000 lbs Steam/hr	55	Kilowatts		Horsepower	
Burner Type	01	% Used for Process	0				
	(see note below)	% Used for Space Heat	100				

FUEL DATA

Parameter	Primary Fuel	Units	Secondary Fuel	Units
Fuel Code (see note below)	01			
Percent Sulfur	N/A			
Percent Ash	N/A			
Percent Nitrogen	0.76			
Percent Carbon	74.72			
Percent Hydrogen	23.3			
Percent Moisture	N/A			
Heat Content (BTU/unit)	1,020	cu.ft		
Maximum Hourly Combustion Rate (units/hr)	78.6	MMBtu		
Normal Annual Combustion Rate (units/hr)	78.6	MMBtu		

Note:

Burner Type: 01 - Spread stoker
 02 - Chain or Traveling Grate
 03 - Hand Fired
 04 - Cyclone Furnace
 05 - Wet Bottom (pulverized coal)
 06 - Dry Bottom (pulverized coal)
 07 - Underfeed Stokers
 08 - Tangentially Fired
 09 - Horizontally Fired
 10 - Axially Fired
 11 - Other (specify): _____

Fuel Codes: 01 - Natural Gas
 02 - #1 or #2 Fuel Oil
 03 - #4 Fuel Oil
 04 - #5 or #6 Fuel Oil
 05 - Used Oil
 06 - Wood Chips
 07 - Wood Bark
 08 - Wood Shavings
 09 - Sander Dust
 10 - Subbituminous Coal
 11 - Bituminous Coal
 12 - Anthracite Coal
 13 - Lignite Coal
 14 - Propane
 15 - Other (specify): _____

SECTION 2, PART B.

OPERATING DATA

Percent Fuel Consumption Per Quarter	
Dec – Feb	30
Mar – May	20
Jun – Aug	20
Sep – Nov	30

Operating Schedule	
Hours/Day	24
Days/Week	7
Weeks/Year	52

POLLUTION CONTROL EQUIPMENT

Parameter	Primary	Secondary
Type	N/A	N/A
Type Code (from APP.A)	N/A	N/A
Manufacturer	N/A	N/A
Model Number	N/A	N/A
Pressure Drop (in. of water)	N/A	N/A
Wet Scrubber Flow (GPM)	N/A	N/A
Baghouse Air/Cloth Ration (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

Enclosed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hood Type (from APP.B)	N/A
Minimum Flow (acfm)	N/A
Percent Capture Efficiency	N/A
Building Height (ft)	N/A
Building/Area Length (ft)	N/A
Building/Area Width (ft)	N/A

STACK DATA

Ground Elevation (ft)	2567
UTM X Coordinate (km)	499.18817E
UTM Y Coordinate (km)	5174.9289N
Stack Type (see note below)	02
Stack Exit Height from Ground Level (ft)	131
Stack Exit Diameter (ft)	5
Stack Exit Gas Flowrate (acfm)	35,800 dscfm
Stack Exit Temperature (°F)	300-325

AIR POLLUTION EMISSIONS

Pollutant	CAS #	Emission Factor (see below)	Percent Control Efficiency	Estimated or Measured Emissions (lbs/hr)	Allowable Emissions		
					lbs/hr	tons/yr	Reference
PM		0.0075 lb/MMBtu	N/A	0.59	N/A	N/A	N/A
PM ₁₀		0.0075 lb/MMBtu	N/A	0.59	N/A	N/A	N/A
SO ₂		0.0006 lb/MMBtu	N/A	0.05	N/A	N/A	N/A
CO		0.0824 lb/MMBtu	N/A	6.48	N/A	N/A	N/A
NO _x		0.0922 lb/MMBtu	N/A	7.70	N/A	N/A	N/A
VOC		0.0054 lb/MMBtu	N/A	0.42	N/A	N/A	N/A
Lead		N/A	N/A	N/A	N/A	N/A	N/A